

# Exam simulation

ATPL - Airline Transport Pilot license - Mass and Balance



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STUDENT NAME:

DATE AND TIME:

**01. For an aircraft flying a true track of  $360^\circ$  between the  $5^\circ\text{S}$  and  $5^\circ\text{N}$  parallels, the precession error of the directional gyro due to apparent drift is equal to:**

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- a)  $-5^\circ/\text{hour}$
- b)  $+5^\circ/\text{hour}$
- c)  $15^\circ/\text{hour}$
- d) Approximately  $0^\circ/\text{hour}$

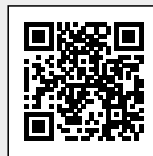
**02. During a flight to Europe planned in North Atlantic high-level airspace, you expect to cross the oceanic entry point later than the estimated time. How should you proceed?**

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- a) within the organised daytime track system
- b) within the organised night-time track system
- c) out of the validity period of organised flight track system
- d) within the polar track system

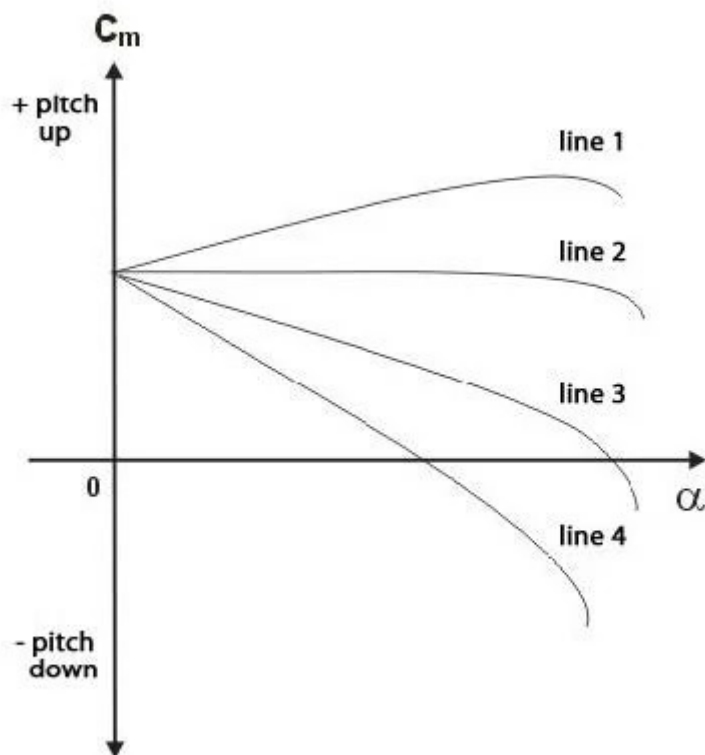
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03. The pitching moment versus angle of attack line in the diagram, which corresponds to a CG located at the neutral point of of a given aeroplane at low and moderate angles of attack is:



- a) Line 2.
- b) Line 1.
- c) Line 4.
- d) Line 3.

04. The Trip Fuel for a jet aeroplane to fly from the departure aerodrome to the destination aerodrome is 5 350 kg. Fuel consumption in holding mode is 6 000 kg/h. The quantity of fuel which is needed to carry out one go-around and land on the alternate airfield is 4 380 kg. The destination aerodrome has a single runway. What is the minimum quantity of fuel which should be on board at take-off?

- a) 13 000 kg
- b) 13 230 kg
- c) 11 730 kg
- d) 14 730 kg

05. Refer to figure: Which figure in the appendix represents the geographic latitude of position P, which is situated above the surface of the ellipsoid?

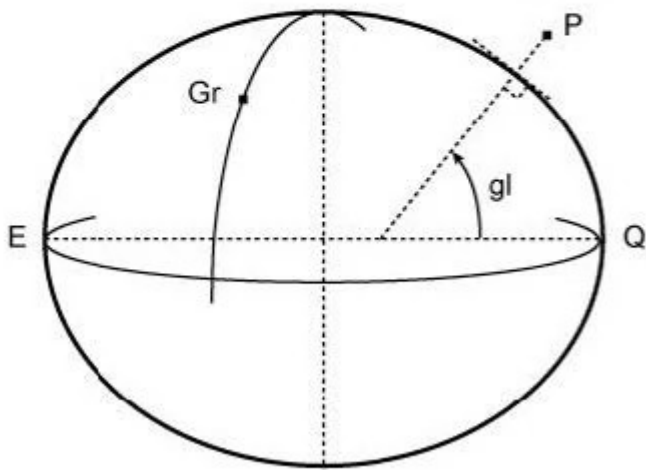
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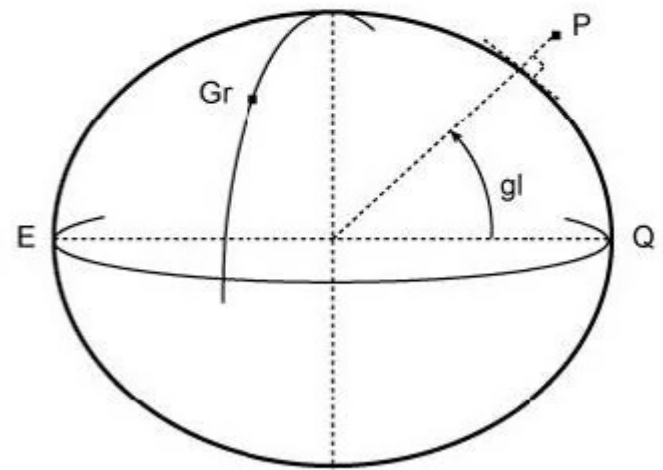


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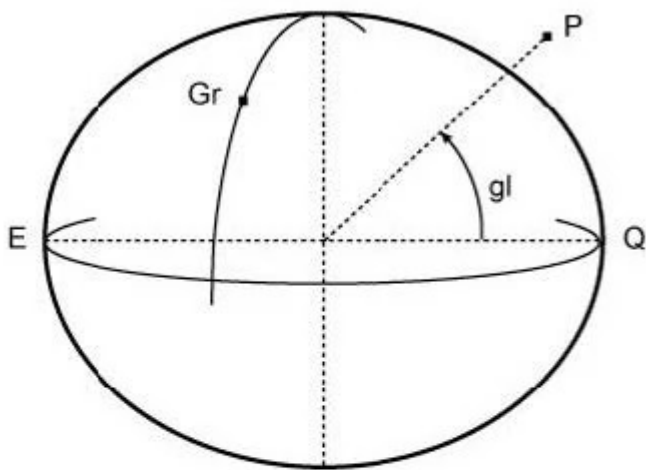
gl = geodetic latitude



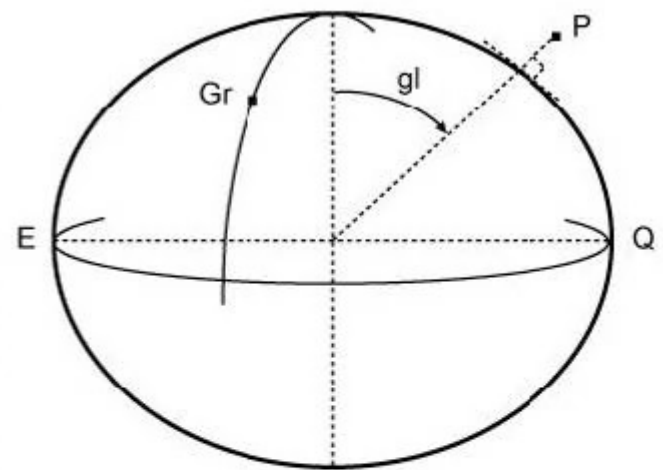
A



B



C



D

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- a) Figure C
- b) Figure D
- c) Figure B
- d) Figure A

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**06. A read back is not needed for the following message:**

---

- a) Clearance to backtrack on RWY in use
- b) Wind velocity
- c) Altimeter setting
- d) Clearance to take off

**07. The tangent from the origin to the power required against true airspeed curve, for a jet aeroplane, determines the speed for:**

---

- a) Maximum endurance
- b) Critical angle of attack
- c) Maximum specific range
- d) Minimum power

**08. A microburst phenomenon can arise in the:**

---

- a) Downdraught of a cumulonimbus at the mature stage.
- b) Updraught of a cumulonimbus at the growth stage.
- c) Downdraught of a cumulonimbus at the initial stage.
- d) Updraught of a cumulonimbus at the mature stage.

**09. A fire occurs in a wheel and immediate action is required to extinguish it. The safest extinguishant to use is:**

---

- a) Water
- b) CO<sub>2</sub> (carbon dioxide)
- c) Dry powder
- d) Foam

**10. The speed of sound at the sea level in standard atmosphere is:**

---

- a) 644 kt
- b) 1059 kt
- c) 661 kt
- d) 332 kt

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**11. Refer to CAP697 Section 4 - MRJT1 Page 19 Figure 4.5.1 En-route Climb 280/0.74 Given: brake release mass 57500 kg temperature ISA -10°C head wind component 16 kt initial FL 280 Find: still air distance (NAM) and ground distance (NGM) for the climb**

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Press. Alt. ft	Units Min/kg. NAM/Kt	68000	66000	64000	62000
		37000	Time/Fuel Dist/TAS		
36000	Time/Fuel Dist/TAS			28/2050 166/388	24 14
35000	Time/Fuel Dist/TAS	32/2350 195/390	27/2000 156/385	24/1850 139/383	22 12
34000	Time/Fuel Dist/TAS	26/2000 152/383	23/1850 136/381	21/1700 123/379	20 11
33000	Time/Fuel Dist/TAS	23/1850 133/378	21/1750 121/376	20/1650 112/375	19 10
32000	Time/Fuel Dist/TAS	21/1750 120/374	20/1650 111/373	19/1550 103/372	17 9
31000	Time/Fuel Dist/TAS	20/1700 110/370	19/1600 102/369	18/1500 95/368	17 8
30000	Time/Fuel Dist/TAS	19/1600 101/366	18/1550 95/365	17/1450 89/364	16 8
29000	Time/Fuel Dist/TAS	17/1550 92/361	16/1450 87/360	16/1400 81/360	15 7
28000	Time/Fuel Dist/TAS	16/1450 84/356	15/1400 79/356	15/1300 75/355	14 7
27000	Time/Fuel Dist/TAS	15/1400 77/352	14/1350 73/351	14/1250 69/351	13 6
26000	Time/Fuel Dist/TAS	14/1350 71/348	14/1250 67/347	13/1200 63/347	12 6
25000	Time/Fuel Dist/TAS	13/1300 65/344	13/1200 61/343	12/1150 58/343	12 5
24000	Time/Fuel Dist/TAS	13/1200 60/340	12/1150 56/340	11/1100 54/340	11 5
23000	Time/Fuel Dist/TAS	12/1150 55/336	11/1100 52/336	11/1050 49/336	10 4
22000	Time/Fuel Dist/TAS	11/1100 50/333	11/1050 48/333	10/1000 45/333	10 4
21000	Time/Fuel Dist/TAS	10/1050 46/330	10/1000 44/329	10/1000 42/329	9 4
20000	Time/Fuel Dist/TAS	10/1000 42/326	9/950 40/326	9/950 38/326	9 3
19000	Time/fuel Dist/TAS	9/950 39/323	9/950 37/323	8/900 35/323	8 3
18000	Time/Fuel Dist/TAS	9/900 35/320	8/900 34/320	8/850 32/320	8 3
17000	Time/Fuel Dist/TAS	8/900 32/317	8/850 31/317	8/800 29/317	7 2
16000	Time/Fuel Dist/TAS	8/850 29/314	7/800 28/314	7/750 27/314	7 2
15000	Time/Fuel Dist/TAS	7/800 26/312	7/750 25/312	7/750 24/312	6 2
14000	Time/Fuel Dist/TAS	7/750 24/309	6/700 23/309	6/700 22/309	6 2
13000	Time/Fuel Dist/TAS	6/700 21/306	6/700 20/306	6/650 19/306	6 1
12000	Time/Fuel Dist/TAS	6/650 19/304	6/650 18/304	5/600 17/304	5 1
11000	Time/Fuel Dist/TAS	5/650 17/301	5/600 16/301	5/600 15/301	5 1
10000	Time/Fuel Dist/TAS	5/600 15/299	5/550 14/299	5/550 13/299	5 1
8000	Time/Fuel Dist/TAS	4/500 11/294	4/500 10/294	4/500 10/294	4 0
6000	Time/Fuel Dist/TAS	4/450 7/290	3/400 7/290	3/400 6/290	3 0
1500	Time/Fuel	2/250	2/250	2/250	2 0

Fuel Adjustment for high elevation airports  
Effect on time and distance is negligible

Airport  
Fuel Ad

**Figure 4.5.1**

En-route Climb 280/

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- a) 59 NAM 62 NGM
- b) 62 NAM 59 NGM
- c) 71 NAM 67 NGM
- d) 67 NAM 71 NGM

**12. AIP Which part of the AIP contains information relating to existing prohibited, restricted and danger areas?**

---

- a) GEN
- b) AD
- c) ENR
- d) The AIP does not contain this information

**13. For the purpose of completing the Mass and Balance documentation, the Operating Mass is considered to be Dry Operating Mass plus**

---

- a) Ramp (Block) Fuel Mass.
- b) Trip Fuel Mass.
- c) Take-off Fuel Mass.
- d) Ramp Fuel Mass less the fuel for APU and run-up.

**14. The zero fuel mass of an aeroplane is always:**

---

- a) The take-off mass minus the wing fuel mass.
- b) The take-off mass minus the fuselage fuel mass.
- c) The take-off mass minus the mass of take-off fuel.
- d) The maximum take-off mass minus the take-off fuel mass.

**15. An aircraft transmitting a distress message is required to give its position as:**

---

- a) The most accurate possible using GPS if fitted.
- b) Present or last known position, altitude or level and heading.
- c) Position relative to a VRP.
- d) Latitude and longitude.

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**16. When letters are used for registration mark combinations shall not be used which might be confused with urgent signals for example:**

---

- a) TTT
- b) LLL
- c) RCC
- d) FFF

**17. At 47° North the chart distance between meridians 10° apart is 5 inches. The scale of the chart at 47° North approximates:**

---

- a) 1: 8 000 000
- b) 1: 3 000 000
- c) 1: 6 000 000
- d) 1: 2 500 000

**18. When may the name of the location or the call sign suffix in the call sign of an aeronautical station be omitted?**

---

- a) Only after the aeronautical station has used the abbreviated call sign
- b) Never
- c) In dense traffic during rush hours
- d) When satisfactory communication has been established and provided it will not be confusing to do so

**19. What according to ICAO Annex 10 is the range of a locator?**

---

- a) 25 - 50 NM
- b) 50 - 100 NM
- c) 10 - 25 NM
- d) 100 - 300 NM

**20. The pressure system indicated when, in a vertical cross section, the lower situated pressure surfaces bulge upward and the higher situated pressure surfaces bulge downward is a:**

---

- a) Cold low pressure area
- b) Warm low pressure area
- c) Cold high pressure area
- d) Warm high pressure area

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**21. In order to indicate unlawful interference with the planned operation of the flight, the aircraft Secondary Surveillance Radar (SSR) transponder should be selected to:**

---

- a) 7600
- b) 7500
- c) 7000
- d) 7700

**22. The approach climb requirement has been established to ensure:**

---

- a) Minimum climb gradient in case of a go-around with one engine inoperative.
- b) Manoeuvrability during approach with full flaps and gear down, all engines operating.
- c) Manoeuvrability in case of landing with one engine inoperative.
- d) Obstacle clearance in the approach area.

**23. On board a non-pressurised aircraft, 10% of the passengers shall be supplied with oxygen throughout the entire flight time, after 30 minutes at pressure altitude greater than:**

---

- a) 10 000 ft but not exceeding 13 000 ft
- b) 11 000 ft but not exceeding 12 000 ft
- c) 11 000 ft but not exceeding 13 000 ft
- d) 10 000 ft but not exceeding 12 000 ft

**24. An integrated aeronautical information package consists of the following elements**

---

- a) AIP, including amendment service
- b) Supplements to AIP, NOTAM, AIC and checklist summaries
- c) AIP, supplements to AIP
- d) NOTAM and PIB

**25. An aeroplane suffers an explosive decompression at an altitude of 31000 ft . What is the initial action by the operating crew ?**

---

- a) To put on oxygen masks
- b) Place the seat belts sign to ON
- c) Transmit a MAYDAY message
- d) Disconnect the autopilot

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**26. The OBS is set to 235°. The indications of the VOR are half full scale deflection left and 'to'. The aircraft is on the radial:**

---

- a) 230°
- b) 050°
- c) 240°
- d) 060°

**27. When leaving the NAT HLA oceanic control area for a domestic controlled area, the pilot has to:**

---

- a) Take the Mach number specified in this initial flight plan
- b) Maintain the Mach number previously assigned up to the last position shown in the oceanic clearance
- c) Take the Mach number provided for this type of flight by their airline
- d) Take any Mach number

**28. Longitudinal CG location can be expressed:**

---

- a) As a percentage of the MAC from its trailing edge.
- b) As a percentage of the MAC from its leading edge.
- c) With respect to the centre of pressure.
- d) With respect to the neutral point.

**29. The primary duty provided by a radar unit is:**

---

- a) To provide radar separation.
- b) To assist aircraft where navigation appears unsatisfactory.
- c) To assist aircraft due to failure of airborne equipment.
- d) To assist aircraft on the location storms.

**30. The selection of code 7600 on an aircraft SSR transponder indicates:**

---

- a) An emergency
- b) Radio communication failure
- c) Transponder malfunction
- d) Unlawful interference with the planned operation of the flight

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## 31. Below the optimum cruise altitude:

---

- a) The IAS for long range cruise increases continuously with decreasing altitude
- b) The TAS for long range cruise increases continuously with decreasing altitude
- c) The Mach number for long range cruise decreases continuously with decreasing altitude
- d) The Mach number for long range cruise increases continuously with decreasing altitude

## 32. The floor limit of an aircraft cargo hold is 5000 N/m<sup>2</sup>. It is planned to load-up a cubic container measuring 0,4 m of side. Its maximum gross mass must not exceed: (assume $g = 10 \text{ m/s}^2$ )

---

- a) 80 kg
- b) 320 kg
- c) 32 kg
- d) 800 kg

## 33. An aircraft was over 'A' at 1435 hours flying direct to 'B'. Given: Distance 'A' to 'B' 2900 NM True airspeed 470 kt, Mean wind component 'out' +55 kt, Mean wind component 'back' -75 kt, Safe endurance 9 HR 30 MIN. The distance from 'A' to the Point of Safe Return (PSR) 'A' is:

---

- a) 1759 NM
- b) 1611 NM
- c) 2844 NM
- d) 2141 NM

## 34. In accordance with EASA-OPS, an operator must ensure that the MDH for an ILS approach without the glidepath (LLZ only) is not lower than:

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- a) 200 ft
- b) 300 ft
- c) 250 ft
- d) 350 ft

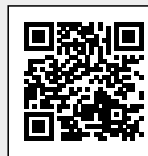
## 35. Which Q-code is used to report altitude?

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- a) QFE
- b) QNH
- c) QNJ
- d) QFF

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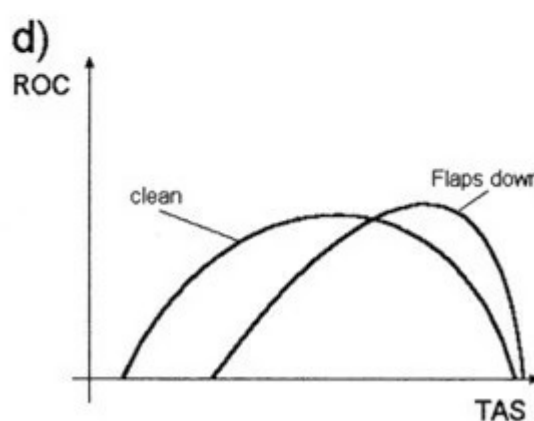
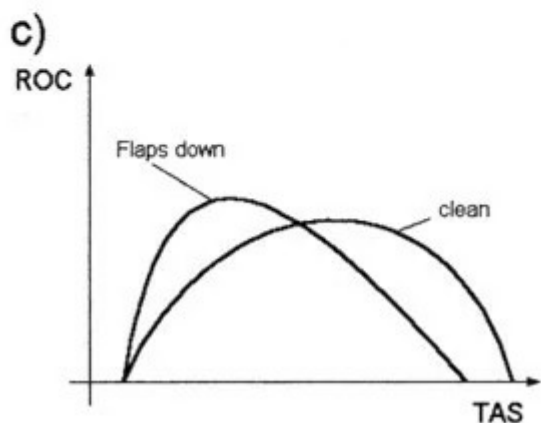
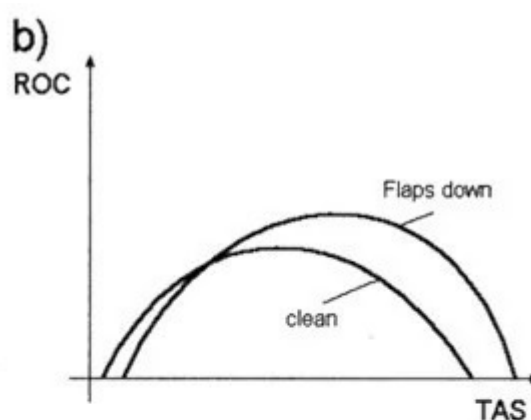
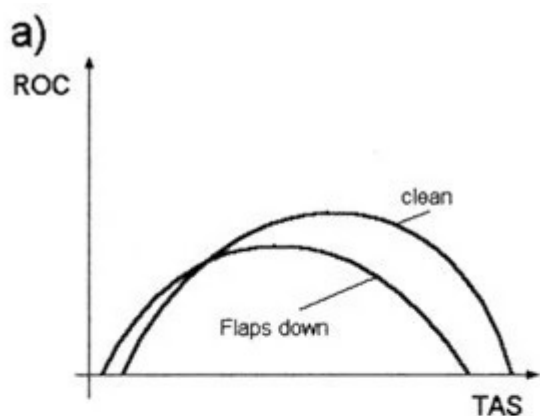


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## 36. The fuel tanks of aircrafts must be checked for water

- a) Immediately after every refuelling.
- b) During refuelling.
- c) Before the first flight of the day or after a long turnaround time.
- d) Before each flight.

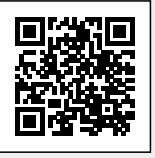
## 37. Considering a rate of climb diagram (ROC versus TAS) for an aeroplane. Which of the diagrams shows the correct curves for 'flaps down' compared to 'clean' configuration?



- a) B
- b) C
- c) A
- d) D

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**38. Which force(s) affect(s) the otoliths in the utriculus and sacculus?**

---

- a) Gravity alone
- b) Linear acceleration and angular acceleration
- c) Gravity and linear acceleration
- d) Angular acceleration

**39. Maximum Tyre Speed can limit the Lift-off Speed. Which kind of speed can be directly used to determine this limitation?**

---

- a) Groundspeed
- b) EAS
- c) TAS
- d) IAS

**40. The navigation plan reads: Trip fuel: 100 kg Flight time: 1h35min Taxi fuel: 3 kg Block fuel: 181 kg The endurance on the ICAO flight plan should read:**

---

- a) 2h 49 min
- b) 2h 52 min
- c) 2h 04 min
- d) 1h 35 min

**41. The "Equation of time":**

---

- a) Is used to calculate mean time when standard time is known.
- b) States the difference between celestial time and apparent time.
- c) Is used when calculating the difference between UTC and LMT.
- d) States the difference in time of transit of mean Sun and the apparent Sun any particular day.

**42. According to DOC 4444 (ICAO), a wake turbulence non-radar separation minima of 2 minutes shall be applied to:**

---

- a) MEDIUM aircraft taking-off behind a HEAVY aircraft from an intermediate part of a parallel runway separated by less than 760 m
- b) MEDIUM aircraft landing behind a HEAVY aircraft
- c) LIGHT aircraft landing behind a MEDIUM aircraft
- d) LIGHT aircraft taking-off behind a MEDIUM aircraft from an intermediate part of the same runway

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**43. On aerodromes aircraft taxiing on the manoeuvring area of an aerodrome shall give way to:**

---

- a) Aircraft taking off or about to take off
- b) All vehicles moving on the apron except the 'follow me' vehicle
- c) Other converging aircraft
- d) Other vehicles and pedestrians

**44. Spark plug fouling is more likely to happen if:**

---

- a) Power is increased too abruptly.
- b) The aircraft descends without a mixture adjustment.
- c) The engine runs at the authorized maximum continuous power for too long.
- d) The aircraft climbs without mixture adjustment.

**45. In a given configuration the endurance of a piston engine aeroplane only depends on:**

---

- a) Altitude, speed, mass and fuel on board.
- b) Speed, mass and fuel on board.
- c) Speed and mass.
- d) Altitude, speed and mass.

**46. Due to the rotation of the Earth, the apparent drift of a horizontal free gyroscope at a latitude of 45°N is:**

---

- a) 2° per hour to the right.
- b) 15° per hour to the left.
- c) 11° per hour to the right.
- d) 7,5° per hour to the left.

**47. What does the abbreviation 'RNAV' mean?**

---

- a) Radar aided navigation
- b) Route navigation
- c) Area navigation
- d) Radio navigation

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**48. The maximum intensity floor loading for an aeroplane is given in the Flight Manual as 650 kg per square metre. What is the maximum mass of a package which can be safely supported on a pallet with dimensions of 80 cm by 80 cm?**

---

- a) 416.0 kg
- b) 101.6 kg
- c) 41.6 kg
- d) 1015.6 kg

**49. In the transonic range lift will decrease at the shock stall due to the**

---

- a) Attachment of the shock wave on the trailing edge of the wing.
- b) First appearance of a shock wave at the upper side of the wing.
- c) Separation of the boundary layer at the shock waves.
- d) Appearance of the bow wave.

**50. A propeller blade is twisted, so as to**

---

- a) Decrease the blade tangential velocity from the blade root to the tip.
- b) Avoid the appearance of sonic phenomena.
- c) Allow a higher mechanical stress.
- d) Keep the local angle of attack constant along the blade.

**51. An increase in the amount of carbon dioxide in the blood leads to:**

---

- a) A reduction of red blood cells
- b) A decrease of acidity in the blood
- c) An improving resistance to hypoxia
- d) An increased respiratory rate

**52. The correct order of decreasing freezing points of the three mentioned fuels is:**

---

- a) Jet A, Jet A-1, Jet B.
- b) Jet B, Jet A, Jet A-1.
- c) Jet A-1, Jet A, Jet B.
- d) Jet B, Jet A-1, Jet A.

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**53. Allowed traffic load is the difference between:**

---

- a) Allowed take off mass and basic empty mass.
- b) Allowed take off mass and basic empty mass plus trip fuel.
- c) Operating mass and basic empty mass.
- d) Allowed take off mass and operating mass.

**54. The angular difference, on a Lambert conformal conic chart, between the arrival and departure track is equal to:**

---

- a) Earth convergence
- b) Conversion angle
- c) Chart convergence
- d) Difference in longitude

**55. A twin engine aeroplane in cruise flight with one engine inoperative has to fly over high ground. In order to maintain the highest possible altitude the pilot should choose:**

---

- a) The long range speed
- b) The speed corresponding to the minimum value of  $(\text{lift} / \text{drag})^{3/2}$
- c) The speed corresponding to the maximum value of the lift / drag ratio
- d) The speed at the maximum lift

**56. The purpose of a compressor bleed valve is to prevent surging:**

---

- a) At low compressor RPM.
- b) With altitude.
- c) Of the first compressor stages.
- d) Generated by foreign object ingestion.

**57. For aerodrome operating minima, an operator must ensure that system minima for non-precision approach procedures are not lower than the following MDH values:**

---

- a) VOR facility, lowest MDH=250 ft
- b) ILS facility without glidepath (localizer) lowest MDH=200 ft
- c) VOR/DME facility, lowest MDH=300 ft
- d) NDB facility, lowest MDH=350 ft

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**58. Which word or phrase shall be used to indicate a separation between portions of a message?**

---

- a) I say again
- b) Stop
- c) Over
- d) Break

**59. What is the maximum speed adjustment that a pilot should be requested to make when under radar control and established on intermediate and final approach?**

---

- a)  $\pm 15$  KT
- b)  $\pm 20$ KT
- c)  $\pm 25$  KT
- d)  $\pm 10$ KT

**60. The pitch up effect of an aeroplane with swept wing in a stall is due to the**

---

- a) Wing tip stalling first
- b) Wing root stalling first
- c) Forward movement of the centre of gravity
- d) Aft movement of the centre of gravity

**61. Except for airplanes under 5,7 t airworthiness certificate of which is subsequent to 31 march 1998, a flight data recording system must be able to store the recorded data for a minimum of the last:**

---

- a) 30 minutes.
- b) 10 hours.
- c) 60 minutes.
- d) 25 hours.

**62. The time taken for the transmission of an interrogation pulse by a Distance Measuring Equipment (DME) to travel to the ground transponder and return to the airborne receiver was 2000 micro-second, including time delay. The slant range from the ground transponder was:**

---

- a) 186 NM
- b) 296 NM
- c) 158 NM
- d) 330 NM

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**63. What does the abbreviation 'H24' mean?**

---

- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

**64. The Dry Operating Mass includes:**

---

- a) Crew and crew baggage, catering, removable passenger service equipment, potable water and lavatory chemicals.
- b) Passengers baggage and cargo.
- c) Fuel and passengers baggage and cargo.
- d) Unusable fuel and reserve fuel.

**65. In what type of nominal orbit are NAVSTAR GPS satellites placed?**

---

- a) Elliptical
- b) Geo-stationary
- c) Circular
- d) Pole to pole

**66. A jet transport aeroplane exhibits pitch up when thrust is suddenly increased from an equilibrium condition, because the thrust line is below the:**

---

- a) Drag line of action.
- b) CG.
- c) Centre of pressure.
- d) Neutral point.

**67. Which design features improve static lateral stability? 1. Anhedral. 2. Dihedral. 3. Forward sweep. 4. Sweepback. The combination that regroups all of the correct statements is:**

---

- a) 1, 4.
- b) 2, 3.
- c) 1, 3.
- d) 2, 4.

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**68. On the readability scale what does READABILITY 1 mean?**

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- a) Readable but with difficulty.
- b) Unreadable.
- c) Readable.
- d) Perfectly readable.

**69. An aeroplane is flying at TAS 180 KT on a track of 090° The W/V is 045° / 50 KT. How far can the aeroplane fly out from its base and return in one hour?**

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- a) 85 NM
- b) 176 NM
- c) 56 NM
- d) 88 NM

**70. Given: TAS = 95 kt, HDG (T) = 075°, W/V = 310/20kt. Calculate the drift and GS?**

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- a) 9L - 105 kt
- b) 10L - 104 kt
- c) 8R - 104 kt
- d) 9R - 108 kt

# Exam simulation

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## Response Scheme

Compare your answers with the following diagram and mark your score!

01: D	02: D	03: A	04: B
05: C	06: B	07: A	08: A
09: C	10: C	11: B	12: C
13: C	14: C	15: B	16: A
17: C	18: D	19: D	20: C
21: B	22: A	23: D	24: A
25: A	26: B	27: B	28: B
29: A	30: B	31: C	32: A
33: D	34: C	35: B	36: C
37: C	38: C	39: A	40: A
41: D	42: B	43: A	44: D
45: A	46: C	47: C	48: A
49: C	50: D	51: D	52: A
53: D	54: C	55: C	56: A
57: D	58: D	59: B	60: A
61: D	62: C	63: B	64: A
65: C	66: B	67: D	68: B
69: A	70: D		

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## Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		